

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims

1. (Currently Amended) A rotor for a vertical shaft impact crusher, said rotor comprising a horizontal upper disc and a horizontal lower disc, said discs being separated by at least two vertical wall segments defining between them an outflow opening for material leaving the rotor, said wall segments each having a first wall portion being substantially tangential in relation to the rotor and being located adjacent to the periphery of the rotor and a second wall portion being angled in relation to said first wall portion and extending from the first wall portion into the rotor, wherein said second wall portion comprises a straight first section extending from the interior of the rotor towards the periphery of the rotor, said first section forming an obtuse first angle with said first wall portion, and a second section connecting the first section and the first wall portion, said second section and said first wall portion forming a second angle being smaller than said first angle, said second section and said first wall portion forming at least one pocket for retaining material, wherein an end of the second section contacts an end of the first wall portion and the second section is oriented in a radial direction.

2. (Previously Presented) A rotor according to claim 1, wherein said first angle is approximately 110-155°.

3. (Previously Presented) A rotor according to claim 2, wherein said first angle is approximately 120-150°.

4. (Previously Presented) A rotor according to claim 1, wherein said second angle is approximately 75-100°.

5. (Previously Presented) A rotor according to claim 4, wherein said second angle is approximately 86-94°.

6. (Currently Amended) A rotor according to claim 1 for a vertical shaft impact crusher, said rotor comprising a horizontal upper disc and a horizontal lower disc, said discs being separated by at least two vertical wall segments defining between them an outflow opening for material leaving the rotor, said wall segments each having a first wall portion being substantially tangential in relation to the rotor and being located adjacent to the periphery of the rotor and a second wall portion being angled in relation to said first wall portion and extending from the first wall portion into the rotor, wherein said second wall portion comprises a straight first section extending from the interior of the rotor towards the periphery of the rotor, said first section forming an obtuse first angle with said first wall portion, and a second section connecting the first section and the first wall portion, said second section and said first wall portion forming a second angle being smaller than said first angle, said second section and said first wall portion forming at least one pocket for retaining material, wherein a horizontal length of the second section is less than a tip distance, wherein the tip distance is defined as the shortest distance

between the second section and a trailing edge of a wear tip located adjacent to a free vertical edge of the first wall portion.

7. (Previously Presented) A rotor according to claim 6, wherein said horizontal length is 20-70% of the tip distance.

8. (Previously Presented) A rotor according to claim 7, wherein said horizontal length is 35-60% of the tip distance.

9. (Previously Presented) A rotor according to claim 1, wherein a second pocket for retaining material is formed between said first section and said second section.

10. (Currently Amended) A rotor according to claim 1 for a vertical shaft impact crusher, said rotor comprising a horizontal upper disc and a horizontal lower disc, said discs being separated by at least two vertical wall segments defining between them an outflow opening for material leaving the rotor, said wall segments each having a first wall portion being substantially tangential in relation to the rotor and being located adjacent to the periphery of the rotor and a second wall portion being angled in relation to said first wall portion and extending from the first wall portion into the rotor, wherein said second wall portion comprises a straight first section extending from the interior of the rotor towards the periphery of the rotor, said first section forming an obtuse first angle with said first wall portion, and a second section connecting the first section and the first wall portion, said second section and said first wall portion forming a second angle being smaller than said first angle, said second section and said first wall portion

forming at least one pocket for retaining material, wherein the wall segment is adapted for building a bed of material extending continuously from the first wall portion to a rear support plate mounted at the first section of the second wall portion.

11. (New) A rotor according to claim 1, wherein the first section is in spaced relation from the first wall portion with the second section therebetween.

12. (New) A rotor according to claim 1, wherein two pockets for retaining material are formed between said first section and said first wall portion.